

WHAT IS CLAIMED IS:

Sub 1. A method for use in a registrar for processing a domain name registration operation in a shared registration system comprising the steps of:

generating a request for performing a domain name registration operation;

5 sending the request to a registry, wherein the registry is operable to receive the request, authenticate a registrar that sent the request, determine whether the registrar is authorized to perform an action necessitated by the operation, execute the operation based on a determination that the registrar is authorized, and store changes necessitated by the operation in a database; and

receiving a response to the request, the response indicating success or failure of the operation.

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2. The method of claim 1, further comprising:

encrypting the request before the sending step.

15 3. A method for use in a registry for processing a domain name registration operation in a shared registration system comprising the steps of:

receiving a request for performing a domain name registration operation;

authenticating a registrar that sent the request;

20 sending the request to an application server based on a determination that the registrar is authenticated, wherein the application server is operable to execute the operation;

receiving a response to the request, the response indicating success or failure of the operation; and

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forwarding the response to the registrar.

4. The method of claim 3, further comprising:
decrypting the request before the authenticating step.

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5. The method of claim 3, further comprising:
sending the registrar a response indicating failure of the operation based on a
determination that the registrar is not authenticated.

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A1 7. A method for use in a registry for processing a domain name registration
operation in a shared registration system comprising the steps of:
receiving a request for performing a domain name registration operation;
parsing the request;
instantiating one or more objects, the objects corresponding to attributes included in the
request;
determining whether a registrar that sent the request is authorized to perform an action
necessitated by the operation;
executing the operation based on a determination that the registrar is authorized;
storing changes necessitated by the operation in a database; and
sending a response to the registrar, the response indicating success or failure of the
operation.

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7. The method of claim 6, further comprising:
determining whether the request is valid before the instantiating step.

5 8. The method of claim 6, wherein the request is a registry registrar protocol
(RRP) request.

9. The method of claim 6, wherein the request includes a command name and an
entity block.

10 10. The method of claim 9, wherein the entity block includes an indication as to
whether the operation pertains to a domain name or a name server.

15 11. The method of claim 6, wherein the operation enables a registrar to register a
domain name or a name server.

12. The method of claim 6, wherein the operation enables a registrar to determine
whether a domain name or name server has previously been registered.

20 13. The method of claim 6, wherein the operation enables a registrar to delete the
registration of a domain name or delete a name server.

14. The method of claim 6, wherein the operation enables a registrar to update a

instantiating one or more objects, the objects corresponding to parameters included in the request;

determining whether the registrar is authorized to perform an action necessitated by the operation;

5 executing the operation based on a determination that the registrar is authorized;

storing changes necessitated by the operation in a database; and

sending a response to the registrar, the response indicating success or failure of the operation.

10 21. A method for use in a registry for processing a domain name registration operation in a shared registration system comprising the steps of:

receiving a request for performing a domain name registration operation;

authenticating a registrar that sent the request;

15 determining whether the registrar is authorized to perform an action necessitated by the operation;

executing the operation based on a determination that the registrar is authorized;

storing changes necessitated by the operation in a database; and

20 sending a response to the registrar, the response indicating success or failure of the operation.

22. A method for use in a registry for processing a domain name registration operation in a shared registration system comprising the steps of:

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receiving a request for performing a domain name registration operation;
determining whether a registrar that sent the request is authorized to perform an action necessitated by the operation;
executing the operation based on a determination that the registrar is authorized;
5 storing changes necessitated by the operation in a database; and
sending a response to the registrar, the response indicating success or failure of the operation.

23. An apparatus for processing a domain name registration operation comprising:
10 a memory having a program that: generates a request for performing a domain name registration operation; sends the request to a registry, wherein the registry is operable to receive the request, authenticate a registrar that sent the request, determine whether the registrar is authorized to perform an action necessitated by the operation, execute the operation based on a determination that the registrar is authorized, and store changes necessitated by the operation in a
15 database; and receives a response to the request, the response indicating success or failure of the operation; and
a processor that runs the program.

24. An apparatus for processing a domain name registration operation comprising:
20 a memory having a program that: receives a request for performing a domain name registration operation; authenticates a registrar that sent the request; sends the request to an application server based on a determination that the registrar is authenticated, wherein the

application server is operable to execute the operation; receive a response to the request, the response indicating success or failure of the operation; and forward the response to the registrar; and

a processor that runs the program.

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25. An apparatus for processing a domain name registration operation comprising:

a memory having a program that: receives a request for performing a domain name registration operation; parses the request; instantiates one or more objects, the objects corresponding to attributes included in the request; determines whether a registrar that sent the request is authorized to perform an action necessitated by the operation; executes the operation based on a determination that the registrar is authorized; stores changes necessitated by the operation in a database; and sends a response to the registrar, the response indicating success or failure of the operation; and

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a processor that runs the program.

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26. An apparatus for processing a domain name registration operation comprising:

a database for storing domain name registration information;

an application gateway operable to receive a request for performing a domain name registration operation, authenticate a registrar that sent the request, receive a response to the request, and forward the response to a registrar that sent the request; and

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an application server operable to receive the request from the application gateway, parse the request, instantiate one or more objects, the objects corresponding to attributes included in

forwarding the response to the registrar.

forwarding the response to the registrar.

29. A computer-readable medium containing instructions for processing a domain name registration operation, the method comprising:

receiving a request for performing a domain name registration operation;

parsing the request;

instantiating one or more objects, the objects corresponding to attributes included in the request;

determining whether a registrar that sent the request is authorized to perform an action necessitated by the operation;

executing the operation based on a determination that the registrar is authorized;

storing changes necessitated by the operation in a database; and

sending a response to the registrar, the response indicating success or failure of the operation.